

Amendment to the Claims

Claims 1-16 (Canceled)

17. (Currently Amended) The transgenic mouse of claim 26 wherein said mouse is homozygous for said null allele; ~~;~~ said mouse exhibiting at least one of the following phenotypes relative to a wild-type control mouse: retinal degeneration, increased anxiety and hypoactivity.
18. (Previously Presented) The transgenic mouse of claim 17, wherein the increased anxiety is characterized by a decrease in time spent in a central region of an open field environment, relative to a wild-type mouse.
19. (Previously Presented) The transgenic mouse of claim 17, wherein the hypoactivity is characterized by a decrease in total distance traveled in an open field environment, relative to a wild-type mouse.

Claims 20-23 (Canceled)

24. (Previously Presented) A method of producing the transgenic mouse of claim 26, the method comprising:
- providing a mouse embryonic stem cell comprising a disruption in an endogenous low density lipoprotein-related protein 5 gene; and
 - introducing the mouse embryonic stem cell into a mouse blastocyst;
 - implanting the resulting blastocyst into a pseudopregnant mouse, wherein the pseudopregnant mouse gives birth to a chimeric mouse; and
 - breeding the chimeric mouse to produce the transgenic mouse.

Claim 25 (Canceled)

26. (Currently amended) A transgenic mouse whose genome comprises a null allele of the endogenous low density lipoprotein-related protein 5 (LRP5) ~~allele~~gene; ~~said null allele comprising exogenous DNA.~~
27. (Currently amended) The transgenic mouse of claim 26 wherein said ~~exogenous DNA~~null allele comprises a gene encoding a positive selection marker.
28. (Currently amended) The transgenic mouse of claim 27 wherein said gene is a neomycin ~~resistant~~resistance gene.
29. (Previously Presented) The transgenic mouse of claim 26 wherein said exogenous DNA comprises a PGK-*neo* fusion gene having two *lacO* sites.

30. (Previously Presented) The transgenic mouse of claim 26 wherein the endogenous LRP5 allele encodes for a protein comprising the amino acid sequence of SEQ ID NO:2.
31. (Canceled)